

**IN THE CLAIMS**

Please cancel claims 4, 17 and 30, and amend claims 1, 14 and 27 to read as indicated herein.

1. (currently amended) A computer-implemented method of creating a custom database in a data store connected to a computer, the method comprising:  
receiving a system description of a structure of (a) said custom database, and (b) an object, wherein said system description defines a mapping of one or more abstract objects to a physical representation in said structure of said custom database;  
generating said structure for said custom database based on said system description;  
and  
generating program code based on said system description, wherein said program code includes a module that, when executed, stores said object in said custom database.

2. (previously presented) The method of claim 1, further comprising generating a user interface to access said custom database.

3. (previously presented) The method of claim 1, further comprising modifying said system description and generating a new structure and new program code that are transparent.

4. (cancelled)

5. (previously presented) The method of claim 1, wherein said structure stores data to form a relational database.

6. (previously presented) The method of claim 1, wherein said system description comprises a markup language file.

7. (previously presented) The method of claim 6, wherein said markup language file comprises an extensible markup language (XML) document.

8. (previously presented) The method of claim 7, wherein said XML document is created using a text editor.

9. (previously presented) The method of claim 7, wherein said XML file is created using a graphical user interface.

10. (previously presented) The method of claim 1, wherein said program code includes a module that, when executed, locates data within said custom database.

11. (previously presented) The method of claim 1, wherein said program code comprises a text search engine.

12. (previously presented) The method of claim 1, wherein said program code comprises a high level language.

13. (previously presented) The method of claim 12, wherein said high level language comprises an object-oriented language.

14. (currently amended) An apparatus for creating a custom database comprising:  
a computer having a data store connected thereto, wherein the data store stores data;  
and

one or more computer programs, performed by the computer, for:

- (i) receiving a system description of a structure of (a) said custom database, and (b) an object, wherein said system description defines a mapping of one or more abstract objects to a physical representation in said structure of said custom database;

- (ii) generating said structure for said custom database based on said system description; and
- (iii) generating program code based on said system description, wherein said program code includes a module that, when executed, stores said object in said custom database.

15. (previously presented) The apparatus of claim 14, further comprising generating a user interface to access said custom database.

16. (previously presented) The apparatus of claim 14, further comprising modifying said system description and generating a new structure and search engine that are transparent.

17. (cancelled)

18. (previously presented) The apparatus of claim 14, wherein said structure stores data to form a relational database.

19. (previously presented) The apparatus of claim 14, wherein said system description comprises a markup language file.

20. (previously presented) The apparatus of claim 19, wherein said markup language file comprises an extensible markup language (XML) document.

21. (previously presented) The apparatus of claim 20, wherein said XML document is created using a text editor.

22. (previously presented) The apparatus of claim 20, wherein said XML document is created using a graphical user interface.

23. (previously presented) The apparatus of claim 14, wherein said program code includes a module that, when executed, locates data within the custom database.

24. (previously presented) The apparatus of claim 14, wherein said program code comprises a text search engine.

25. (previously presented) The apparatus of claim 14, wherein said program code comprises a high level language.

26. (previously presented) The apparatus of claim 25, wherein said high level language comprises an object-oriented language.

27. (currently amended) An article of manufacture comprising a computer program carrier readable by a computer and embodying one or more instructions executable by the computer to perform steps for creating a custom database, comprising:

receiving a system description of a structure of (a) said custom database, and (b) an object, wherein said system description defines a mapping of one or more abstract objects to a physical representation in said structure of said custom database;

generating said structure for said custom database based on said system description;  
and

generating program code based on said system description, wherein said program code includes a module that, when executed, stores said object in said custom database.

28. (previously presented) The article of manufacture of claim 27, further comprising generating a user interface to access said custom database.

29. (previously presented) The article of manufacture of claim 27, further comprising modifying said system description and generating a new structure and new program code that are transparent.

30. (cancelled)

31. (previously presented) The article of manufacture of claim 27, wherein said structure stores data to form a relational database.

32. (previously presented) The article of manufacture of claim 27, wherein said system description comprises a markup language file.

33. (previously presented) The article of manufacture of claim 32, wherein said markup language file comprises an extensible markup language (XML) document.

34. (previously presented) The article of manufacture of claim 33, wherein said XML document is created using a text editor.

35. (previously presented) The article of manufacture of claim 33, wherein said XML file is created using a graphical user interface.

36. (previously presented) The article of manufacture of claim 27, wherein said program code includes a module that, when executed, locates data within said custom database.

37. (previously presented) The article of manufacture of claim 27, wherein said program code comprises a text search engine.

38. (previously presented) The article of manufacture of claim 27, wherein said program code comprises a high level language.

39. (previously presented) The article of manufacture of claim 38, wherein said high level language comprises an object-oriented language.